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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 AUG 15 CAOLD to be discontinued on December 31, 2008  
NEWS 3 OCT 07 EPFULL enhanced with full implementation of EPC2000  
NEWS 4 OCT 07 Multiple databases enhanced for more flexible patent  
number searching  
NEWS 5 OCT 22 Current-awareness alert (SDI) setup and editing  
enhanced  
NEWS 6 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT  
Applications  
NEWS 7 OCT 24 CHEMLIST enhanced with intermediate list of  
pre-registered REACH substances  
NEWS 8 NOV 21 CAS patent coverage to include exemplified prophetic  
substances identified in English-, French-, German-,  
and Japanese-language basic patents from 2004-present  
NEWS 9 NOV 26 MARPAT enhanced with FSORT command  
NEWS 10 NOV 26 MEDLINE year-end processing temporarily halts  
availability of new fully-indexed citations  
NEWS 11 NOV 26 CHEMSAFE now available on STN Easy  
NEWS 12 NOV 26 Two new SET commands increase convenience of STN  
searching  
NEWS 13 DEC 01 ChemPort single article sales feature unavailable  
  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:16:48 ON 02 DEC 2008

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:17:11 ON 02 DEC 2008  
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STRUCTURE FILE UPDATES: 30 NOV 2008 HIGHEST RN 1077629-73-2  
DICTIONARY FILE UPDATES: 30 NOV 2008 HIGHEST RN 1077629-73-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

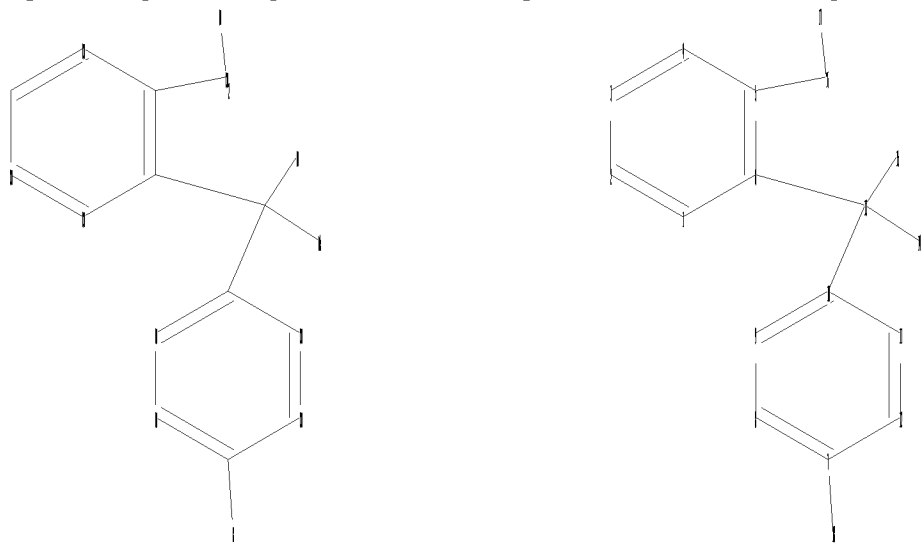
Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10-597836genII.str



chain nodes :  
13 14 15 16 17 18  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12  
chain bonds :  
5-16 6-13 7-18 10-13 13-15 13-14 16-17  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12  
exact/norm bonds :  
13-15 13-14  
exact bonds :  
5-16 6-13 7-18 10-13 16-17  
normalized bonds :

1-2    1-6    2-3    3-4    4-5    5-6    7-8    7-12    8-9    9-10    10-11    11-12

Match level :

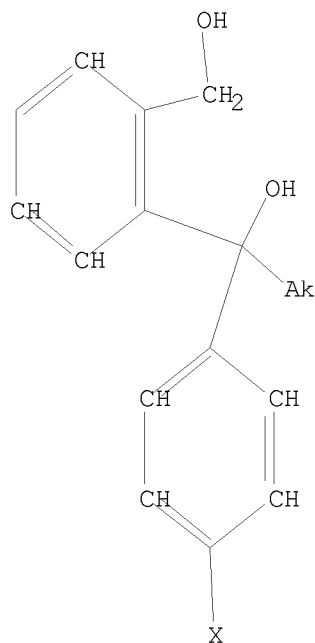
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1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
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L1      STRUCTURE  UPLOADED
```

$$\Rightarrow d_{11}$$

L1 HAS NO ANSWERS

L1	STR
----	-----



Structure attributes must be viewed using STN Express query preparation.

$$\Rightarrow s \text{ ll sss full}$$

FULL SEARCH INITIATED 17:18:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9547 TO ITERATE

100.0% PROCESSED      9547 ITERATIONS

72 ANSWERS

SEARCH TIME: 00.00.01

L2                      72 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.82

179.03

FILE 'CAPLUS' ENTERED AT 17:18:36 ON 02 DEC 2008

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FILE COVERS 1907 - 2 Dec 2008 VOL 149 ISS 23  
FILE LAST UPDATED: 1 Dec 2008 (20081201/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s ll and ("cyclic anhydride" or imide)

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 17:25:17 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 536 TO ITERATE

100.0% PROCESSED 536 ITERATIONS 3 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 9331 TO 12109  
PROJECTED ANSWERS: 3 TO 163

L3 3 SEA SSS SAM L1

L4 9 L3

346312 "CYCLIC"  
358 "CYCLICS"  
346453 "CYCLIC"  
("CYCLIC" OR "CYCLICS")  
236963 "ANHYDRIDE"  
35167 "ANHYDRIDES"  
248380 "ANHYDRIDE"  
("ANHYDRIDE" OR "ANHYDRIDES")  
2333 "CYCLIC ANHYDRIDE"  
("CYCLIC" (W) "ANHYDRIDE")  
25205 IMIDE  
10909 IMIDES

30875 IMIDE

(IMIDE OR IMIDES)

L5 0 L4 AND ("CYCLIC ANHYDRIDE" OR IMIDE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.32

192.09

FILE 'CAPLUS' ENTERED AT 17:26:14 ON 02 DEC 2008

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FILE COVERS 1907 - 2 Dec 2008 VOL 149 ISS 23

FILE LAST UPDATED: 1 Dec 2008 (20081201/ED)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l2 and ("cyclic anhydride" or imide)

69 L2

346312 "CYCLIC"

358 "CYCLICS"

346453 "CYCLIC"

("CYCLIC" OR "CYCLICS")

236963 "ANHYDRIDE"

35167 "ANHYDRIDES"

248380 "ANHYDRIDE"

("ANHYDRIDE" OR "ANHYDRIDES")

2333 "CYCLIC ANHYDRIDE"

("CYCLIC" (W) "ANHYDRIDE")

25205 IMIDE

10909 IMIDES

30875 IMIDE

(IMIDE OR IMIDES)

L6 1 L2 AND ("CYCLIC ANHYDRIDE" OR IMIDE)

=> d l6 abs ibib hitstr

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Compds. I [R1 = H, or group II; R2 = CN, or a group which may be converted to CN; R3 = halo; X = double or single bond; Y = bond, O, S, or NH; W = O, or S; R4 = alkyl, alkenyl, alkynyl, aryl, hetroaryl, all of which may be optionally substituted with alkoxy, alkythio, halo, OH, NH, NO2, CN, alkylamino, aryl, aryloxy, arylthio, and heteroaryl], or a salt from a mixture of I [R1 = group II] and I [R1 = H], which was reacting with cyclic anhydride or imide to form a mixture of I [R1 = group II] and an esters III (R5 = substituted heteroaryl carboxylic acid), were prepared by enzymic acylation or deacylation, separated, isolated and purified and used for manufacturing of escitalopram and derivs. Compds. I [R1 = group II] were separated from esters III by precipitation of III from the mixture,

or by partitioning between an organic solvent and aqueous solvent, by adsorbing I

[R1 = group II] on a basic resin. Thus, addition of succinic anhydride to a mixture of butyric acid 5-cyano-2-[4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl]-benzyl ester and prepared by enzymic resolution 4-[(S)-4-dimethylamino-1-(4'-fluorophenyl)-1-hydroxybutyl]-3-hydroxymethylbenzonitrile, gave after precipitation and washing 2,02 g of escitalopram [(S)-1-(3-dimethylamino-propyl)-1-(4-fluoro-phenyl)-1,3-dihydro-isobenzofuran-5-carbonitrile] hydrogen oxalate (ee = 95%).

ACCESSION NUMBER: 2005:902848 CAPLUS

DOCUMENT NUMBER: 143:248161

TITLE: Method for the separation of intermediates which may be used for the preparation of escitalopram

INVENTOR(S): Lyngso, Lars Ole

PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2005077891	A1	20050825	WO 2005-DK75	20050202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005212455	A1	20050825	AU 2005-212455	20050202
CA 2555980	A1	20050825	CA 2005-2555980	20050202
EP 1716108	A1	20061102	EP 2005-700625	20050202
EP 1716108	B1	20081015		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
CN 1918112	A	20070221	CN 2005-80004594	20050202
BR 2005007580	A	20070731	BR 2005-7580	20050202
JP 2007524678	T	20070830	JP 2006-552461	20050202
AT 411278	T	20081015	AT 2005-700625	20050202
MX 2006PA08977	A	20061020	MX 2006-PA8977	20060808

IN 2006CN02945	A	20070608	IN 2006-CN2945	20060810
NO 2006004086	A	20060912	NO 2006-4086	20060912
US 20070190624	A1	20070816	US 2006-597836	20061108
PRIORITY APPLN. INFO.:			DK 2004-217	A 20040212
			US 2004-544970P	P 20040212
			WO 2005-DK75	W 20050202

OTHER SOURCE(S): CASREACT 143:248161; MARPAT 143:248161

IT 488787-59-3P

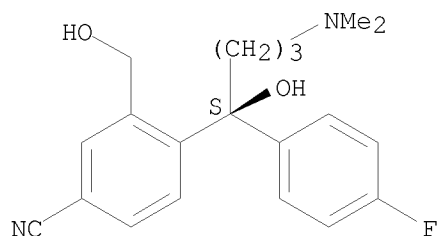
RL: BPN (Biosynthetic preparation); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation by enzymic acylation or deacylation, separation, isolation and purification by precipitation, partitioning, or adsorption, of benzonitriles used as intermediates for synthesis of escitalopram and derivs.)

RN 488787-59-3 CAPLUS

CN Benzonitrile, 4-[(1S)-4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



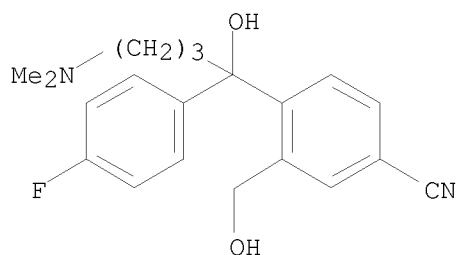
IT 103146-25-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation by enzymic acylation or deacylation, separation, isolation and purification by precipitation, partitioning, or adsorption, of benzonitriles used as intermediates for synthesis of escitalopram and derivs.)

RN 103146-25-4 CAPLUS

CN Benzonitrile, 4-[4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 17:27:32 ON 02 DEC 2008

